

PRIMARY USE: Species management.

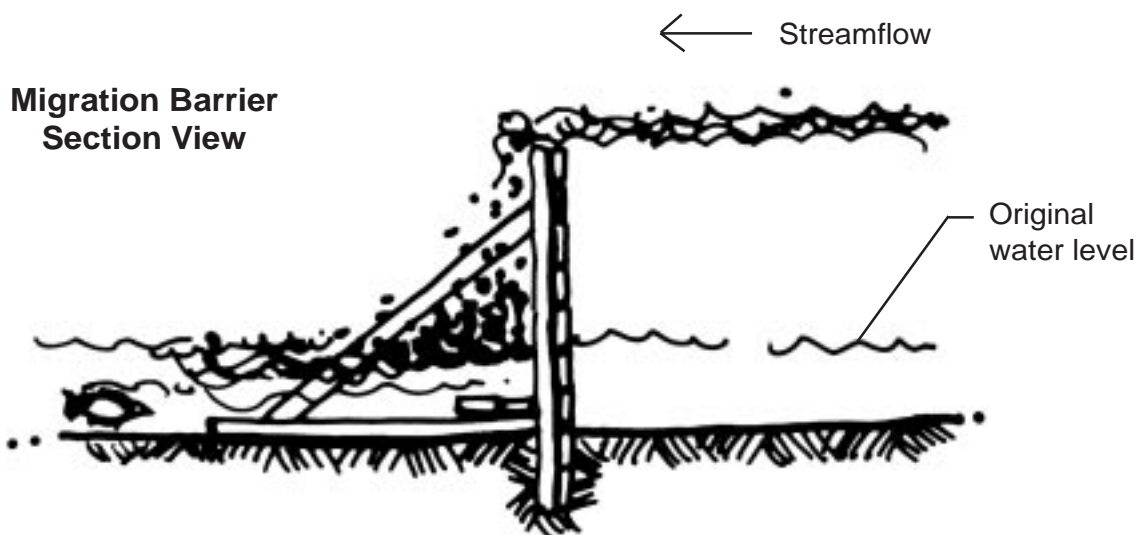
ADDITIONAL USES:

MIGRATION BARRIER

What is it? Migration barriers prevent undesirable species from entering upstream reaches.

Purpose

Migration barriers make species management in upper reaches of streams possible while acting as a control mechanism for nuisance species. Electronic barriers offer the advantage of not disturbing the stream and providing a solution for control in deep water.



Limitations

Species other than the target species may be affected. There is also a potential for impacting other stream corridor functions. These barriers are not suitable for streams with base flows depths over 2 ft (0.6 m) and with a width greater than 30 ft (9 m). The selected location must have stream banks high enough so that installation of the barrier will not cause flood flows to bypass the structure. Should be designed by a qualified professional.

Materials

Requires suitable logs or gabions to build a crib, apron and floor. Gabions may be used instead of logs where a local supply of the required rock size is available, and the wire mesh can tolerate bedload abrasion and acidity.

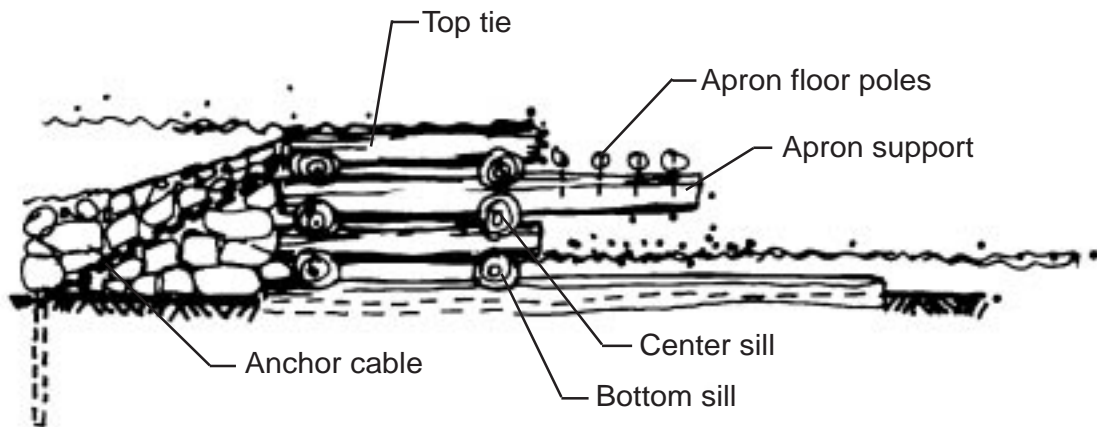
Installation

Minimize disturbance to the stream and adjoining areas by scheduling the work when it will interrupt aquatic plants and animals the least. Carefully consider the needs of desirable organisms that use the stream in terms of their habitat needs, and nutrient and energy transfers.

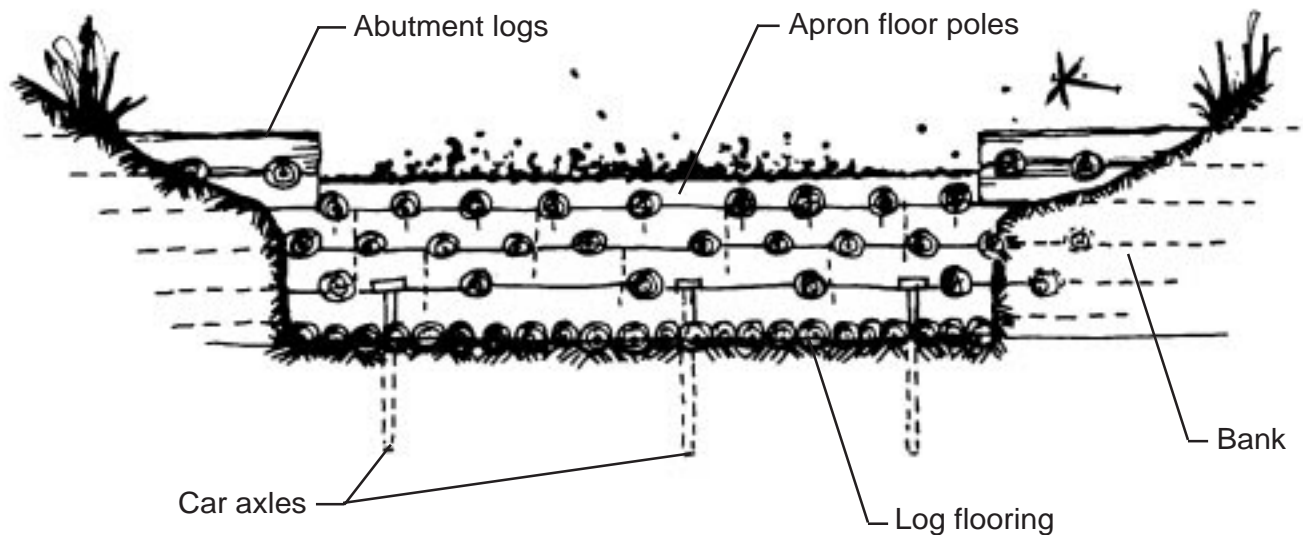
Source: Stream Corridor Restoration Handbook, USDA.

MIGRATION BARRIER

Additional Drawings:



**Migration Barrier
Section View**



**Migration Barrier
Elevation View**